

Title (en)

OPTICAL FIBER COMMUNICATION METHOD AND MULTIMEDIA OPTICAL FIBER NETWORK USING THE SAME

Publication

EP 0362790 A3 19910703 (EN)

Application

EP 89118321 A 19891003

Priority

- JP 24007489 A 19890918
- JP 25145288 A 19881004
- JP 31649888 A 19881216

Abstract (en)

[origin: EP0362790A2] The present invention discloses an optical fiber communication system for an optical network in which a plurality of types of communication terminal equipments are connected to one another via optical fibers, the optical fiber communication system being consisting of the steps: conducting wavelength multiplexing using at least three wavelengths, allotting a first optical wavelength to a packet switched communication of a distribution control system, allotting a second optical wavelength to a line switched communication of a time division multiplexing system, allotting the residual optical wavelength to a line switched communication by an optical wavelength allotment system, and conducting a control of the line switched communication of the time division multiplexing system using the second optical wavelength and the line switched communication by the optical wavelength allotment using the residual optical wavelength, this control being conducted by using the packet switched communication using the first optical wavelength. The present invention further discloses an optical network having an optical network control unit to which the optical fiber communication system is applied, an optical network having no optical network control unit, a terminal equipment forming the optical network, and an optical network control unit.

IPC 1-7

H04J 14/02

IPC 8 full level

H04J 14/02 (2006.01)

CPC (source: EP US)

H04J 14/0226 (2013.01 - EP US); **H04J 14/0245** (2013.01 - EP US); **H04J 14/0246** (2013.01 - EP US); **H04J 14/0247** (2013.01 - EP US); **H04J 14/025** (2013.01 - EP US); **H04J 14/0252** (2013.01 - EP US); **H04J 14/028** (2013.01 - EP US); **H04J 14/0282** (2013.01 - EP US)

Citation (search report)

- [A] DE 3632047 A1 19880407 - STANDARD ELEKTRIK LORENZ AG [DE]
- [Y] JOURNAL OF LIGHTWAVE TECHNOLOGY, vol. LT-3, no. 3, June 1985, pages 490-495, New York, US; T. SHIBAGAKI et al.: "Video transmission characteristics in WDM star networks"
- [Y] PROCEEDINGS IEEE CONFERENCE COMPUTER AIDED TECHNOLOGIES, Montreal, Quebec, 9th - 13th September 1985, pages 243-248; M.R. FINLEY, Jr.: "An integrated baseband-broadband optical fiber lan"
- [A] PROCEEDINGS IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, Toronto, 22nd - 25th June 1986, pages 931-933; M.S. GOODMAN et al.: "Application of wavelength division multiplexing to communication network architectures"
- [A] ADVANCES IN INSTRUMENTATION, vol. 40, part 2, 21st - 24th October 1985, Research Triangle Park, NC, US; S. NAMBU et al.: "Using wavelength division multiplexing in an optical star network system"

Cited by

EP0769858A3; EP0483549A3; US5321542A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0362790 A2 19900411; **EP 0362790 A3 19910703**; **EP 0362790 B1 19950621**; DE 68923143 D1 19950727; DE 68923143 T2 19951116; US 5144466 A 19920901; US 5343314 A 19940830

DOCDB simple family (application)

EP 89118321 A 19891003; DE 68923143 T 19891003; US 41576489 A 19891002; US 89748292 A 19920612